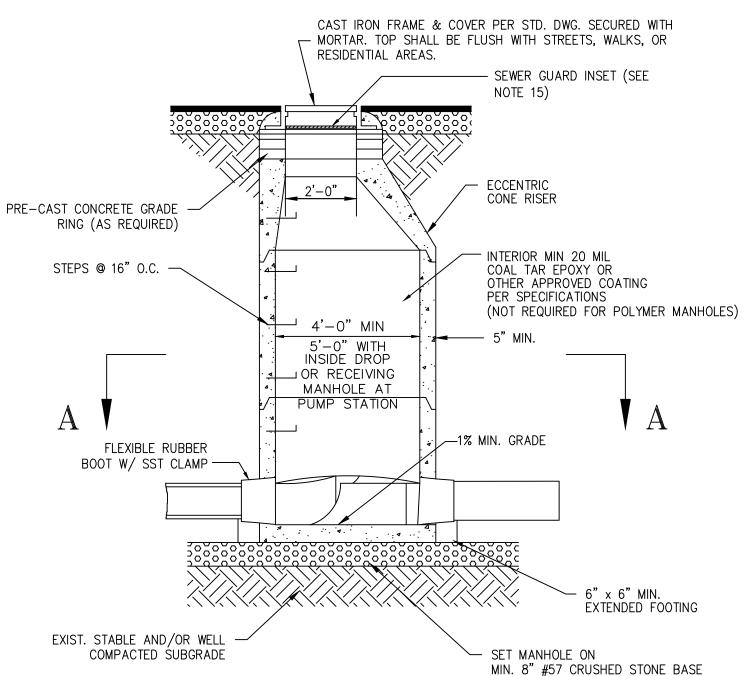


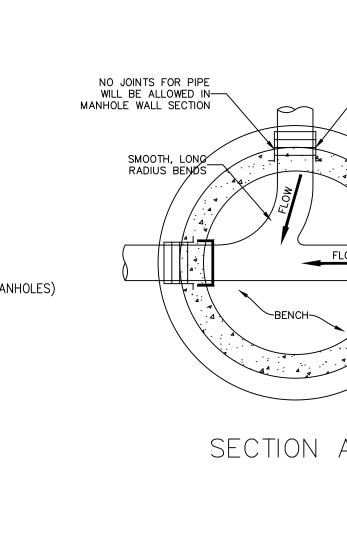
- OR CORED. DIAMETER OF HOLE SHALL NOT EXCEED OUTSIDE DIAMETER OR PIPE BY MORE THAN 3 INCHES. 6. CONNECTIONS OF PIPE TO MANHOLE SHALL BE MADE WATERTIGHT USING RESILIENT CONNECTORS CONFORMING TO ASTM C 923 OR NEOPRENE BOOTS EMBEDDED IN PRECAST BASE WITH STAINLESS STEEL COMPRESSION BANDS.
- 7. MANHOLE INVERTS SHALL BE INSTALLED USING BRICK AND MORTAR, OR MANHOLES MAY BE PRECAST, MONOLITHIC SECTIONS WITH FORMED INVERTS. 8. LIFT HOLES SHALL BE PLUGGED AND FILLED FLUSH WITH MORTAR.
- 9. ALL BRICK AND MORTAR SHALL RECEIVE A 1/2" MORTAR PARGE COAT ON INSIDE AND OUTSIDE.
- 10. ALL SPACE BETWEEN PIPE AND OPENING INSIDE OF MANHOLE TO BE GROUTED WITH TYPE S MORTAR
- 11. SEWER MAIN PENETRATIONS AND/OR SERVICE LATERAL PENETRATIONS ENTERING AT 30" OR LESS ABOVE THE MANHOLE BENCH SHALL HAVE A SLIDE CONSTRUCTED OF BRICK AND MORTAR.(SEE DETAIL)
- 12. ALL PENETRATIONS ENTERING MANHOLE AT GREATER THAN 30" SHALL BE AN INSIDE DROP MANHOLE (SEE DETAIL).
- 13. INSIDE DROP MANHOLES, AND PUMP STATION RECEIVING MANHOLES SHALL BE MINIMUM 5' DIAMETER MANHOLES.
- 14. SANITARY SEWER MANHOLES SHALL BE COATED WITH COAL TAR EPOXY 20 MILS THROUGHOUT THE INSIDE OF THE MANHOLE. 15. ALL MANHOLES SHALL HAVE A SEWER GUARD INSERT INSTALLED -PLASTIC IS ALLOWED IN NON-TRAFFIC AREAS - STAINLESS STEEL
- INSERT PANS ARE REQUIRED IN TRAFFIC AREAS 16. MANHOLES SHALL BE TRAFFIC BEARING WITH A MINIMUM HS-20 LOAD ALLOWANCE.
- 17. FOR NEW SEWER FORCE MAINS CONNECTING TO AN EXISTING COUNTY GRAVITY SYSTEM THAT REQUIRES THE CUT IN OF A NEW MANHOLE:

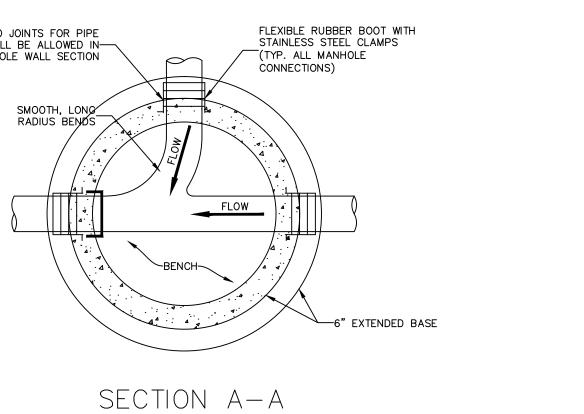
THE NEW SEWER MANHOLE SHALL BE PRECAST POLYMER CONFORMING TO ASTM C478 AS MANUFACTURED BY ARMOROCK, MEYER POLYCRETE OR APPROVED EQUAL. RISER SECTION JOINTS SHALL BE BELL AND SPIGOT /SHIP-LAP DESIGN SEAMED WITH BUTYL MASTIC AND/OR RUBBER GASKETS (ASTM C990) SO THAT ON ASSEMBLY THE MANHOLE BASE, RISER(S) AND TOP SECTIONS MAKE A CONTINUOUS AND UNIFORM MANHOLE STRUCTURE. A CARBON FILTER MUST BE PROVIDED ON ANY MANHOLE THAT

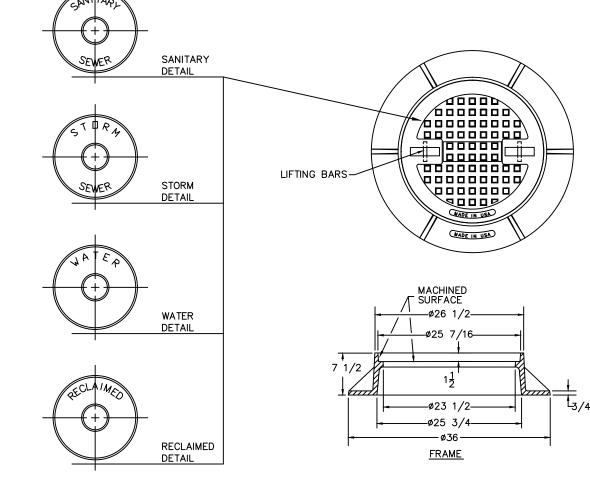
HAS A FORCE MAIN SEWER SYSTEM CONNECTION.



PRECAST CONCRETE MANHOLE DETAIL S-1

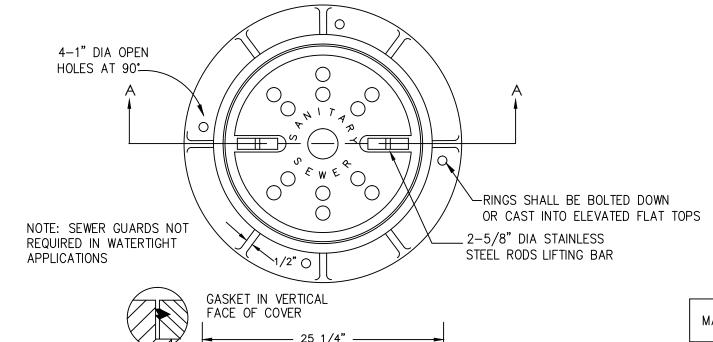


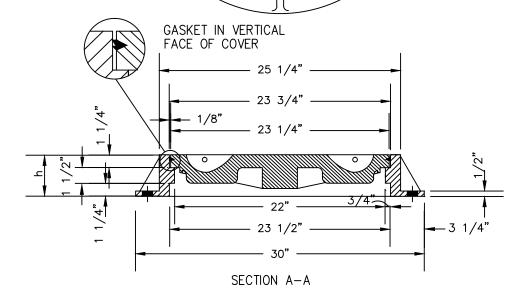




MANUFACTURER	MODEL NUMBER
US FOUNDRY	725 RING / DP-SSG COVER
US FOUNDRY	710 RING / DP-SSG COVER
CAPITAL FOUNDRY	MH-3000
EAST JORDAN IRON WORKS	202711 RING / 202746 COVER
GENERAL FOUNDRIES	GFI-7126 / GFI-41261

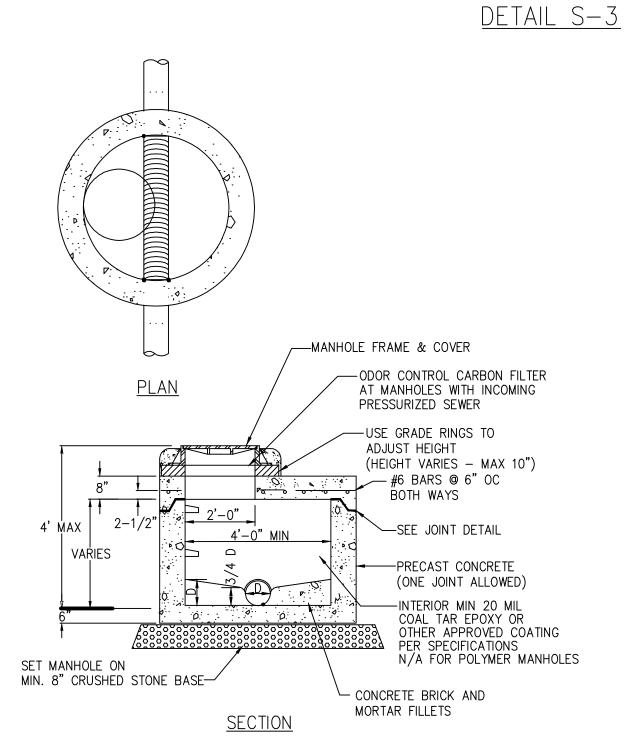
STANDARD MANHOLE RING AND COVER DETAIL S-2



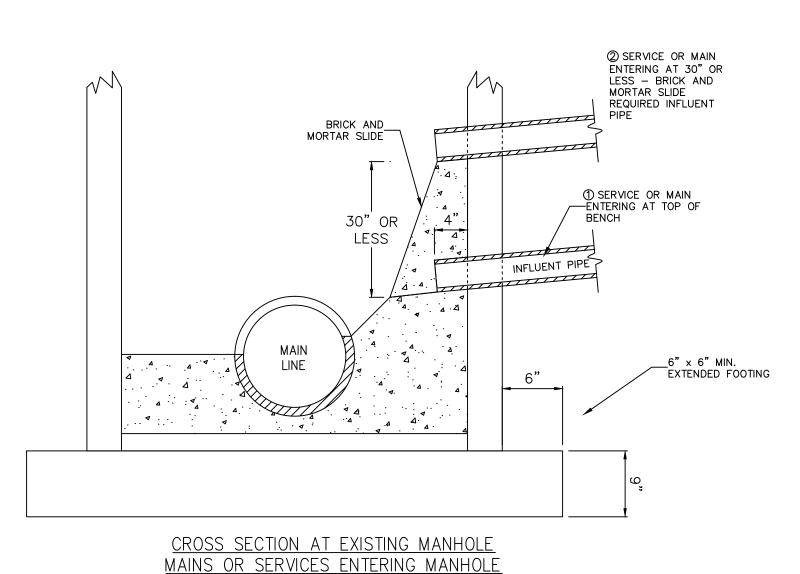


MANUFACTURER	MODEL NUMBER
US FOUNDRY	725 RING / DP-LOC SSG
US FOUNDRY	710 RING / DP-LOC SSG
CAPITAL FOUNDRY	MH-3000-WT
EAST JORDAN IRON WORKS	202701 RING / 202722 COVER

WATERTIGHT MANHOLE RING AND COVER



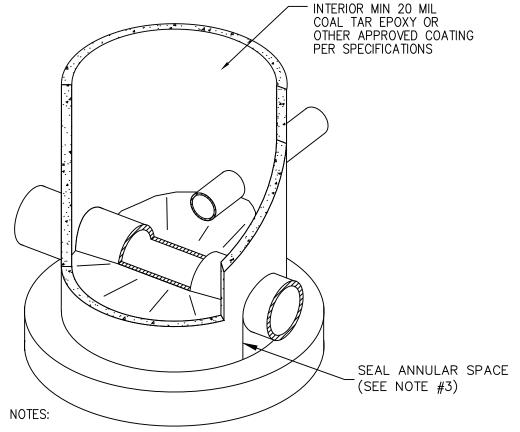
SHALLOW PRECAST CONCRETE MANHOLE WITH FLAT TOP DETAIL S-5



DETAIL S-6

PRECAST DOGHOUSE MANHOLE — 4'-0" FOR 8" TO 12" MAINS — — 5'−0" FOR 15" TO 30" MAINS — — 6'-0" FOR 36" TO 54" MAINS — SAWCUT TO SPRINGLINE

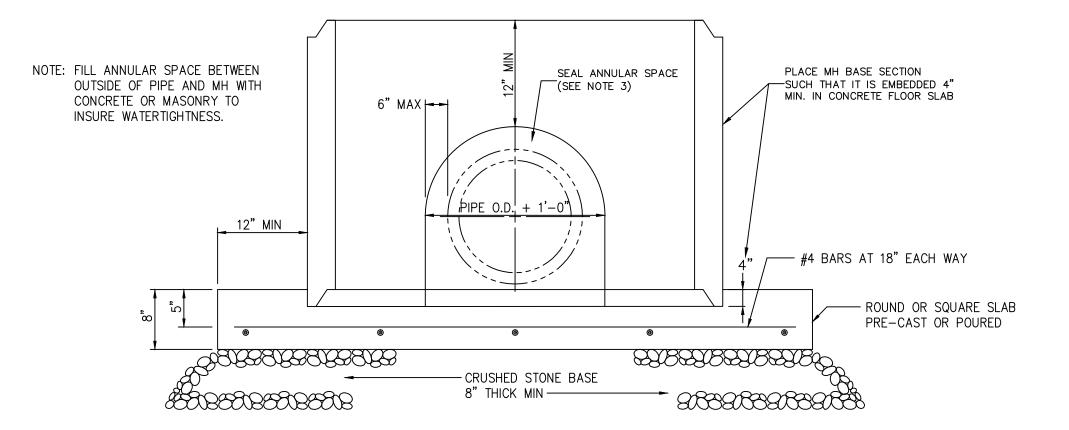
SECTION ALONG CENTERLINE OF MAIN



1. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION. THIS DETAIL TO BE USED WHEN A NEW 6" OR LARGER LATERAL OR MAIN NECESSITATES CONSTRUCTION OF A NEW MANHOLE.

ANNULAR SPACE BETWEEN PIPE AND MANHOLE MUST BE SEALED WITH BRICK AND MORTAR TO PREVENT INFILTRATION. 4. FOR POLYMER MANHOLE - CONCRETE GROUT AND COATED WITH

EPOXY KIT AS REQUIRED PER MANUFACTURER.



PRECAST CONCRETE DOGHOUSE MANHOLE DETAIL S-4

Revisions

1.1 - DATED 4/30/2013

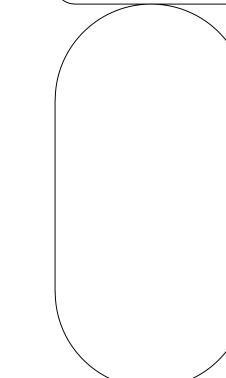
.2 - DATED 1/23/2019

1.3 **-** DATED 5/5/2020

1.4 - DATED 10/7/2020

Mod Detail S-3

Date: <u>06-14-12</u> Scale: NTS Drawn By: JDM Checked By: WLP



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